FL-5300

1550 nm LASER DIODE MODULES

FL-5300 SERIES

UNCOOLED MOW-FP LD WITH PIGTAIL

.....

FEATURES

- 1550 nm typical emission wavelength
- 2 High reliability, long operation life
- High temperature operation without active cooling
- 2 Build-in InGaAs monitor

APPLICATION

Trunk Line, FitL

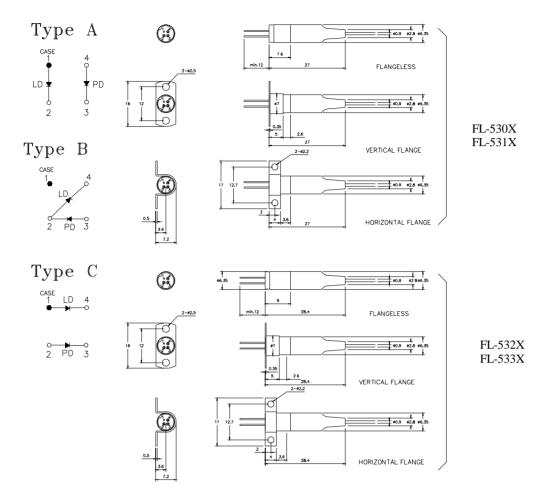
DESCRIPTION

FL-5300 series are designed for coupling a single mode optical fiber with 1550 nm MQW-FP uncooled laser diode. FL-5300 series are the best kits as light sources for telecom and datacom applications.

ELECTRICAL AND OPTICAL CHARACTERISTICS (T _C =25 °C)							
Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit	
I _{th}	Threshold Current	CW		12	15	mA	
V _{OP}	Operating Voltage	CW, I _F = I _{th} +20mA		1.2	1.5	V	
Pf	Optical Output Power Part No:FL-530X FL-531X FL-532X FL-533X	CW, $I_F = I_{th} + 20mA$	0.2 0.5 1.0 2.0	- - -	- - -	mW	
λс	Center Wavelength	CW, I _{th} +20mA	1520	1550	1580	nm	
Δλ	Spectral Width	CW, I _{th} +20mA, RMS (σ)			3	nm	
t _r , t _f	Rise And Fall Times	I _F =I _{th} , I _{th} +20mA, 10~ 90%			0.3	ns	
$\Delta P_f / P_f$	Tracking Error	APC, -40~+85 °C	-	-	±1.0	dB	
I_{m}	PD Monitor Current	CW, I _{th} +20mA,V _{RD} =1V	100			μ A	
I_D	PD Dark Current	V _{RD} =5V			0.1	μ A	
C_t	PD Capacitance	V _{RD} =5V, f=1MHz		10	15	pF	

ABSOLUTE MAXIMUM RATINGS (T _C =25 °C)					
Symbol	Parameter	Ratings	Unit		
Po	Optical Output Power (530X/531X/532X/533X)	0.5/1.0/1.5/3	mW		
V_{RL}	LD Reverse Voltage	2	V		
V_{RD}	PD Reverse Voltage	10	V		
I _{FD}	PD Forward Current	1.0	mA		
Topr	Operating Temperature	-40~+85	°C		
T _{stg}	Storage Temperature	-40~+85	°C		

MECHANICAL DIMENSION (mm) and PIN ASSIGNMENT



Note: Specifications subject to change without notice.

ORDER INFORMATION

